

ABSTRACT OF DISCLOSURE

A furnace wall 1 comprises: a furnace wall bottom part A composed of furnace wall tubes 2a having upward-spiraled fluid passages; a nose part C which has nose wall tubes 5a disposed in a middle part of a furnace rear wall B adjoining the furnace wall bottom part A; and a screen part D having screen tubes 7, wherein the terminal parts of the furnace wall tubes 2a are located lower than the nose part C. Consequently, the drain generated in the nose wall tubes 5a while the operation of the boiler is suspended can naturally fall inside the furnace wall tubes 2a located lower than the nose part C, and in a case where the header 6 is connected with the terminal parts of the furnace wall tubes 2a, the drain generated in the nose wall tubes 5a can naturally fall inside the header 6.

In addition, the furnace wall tubes 2b ($2b_1$, $2b_2$) which extend upright from the terminal parts of the furnace wall tubes 2a can be provided to connect parts $2b_1$ of the furnace wall tubes 2b directly with the header 6, to connect the header 6 with the nose wall tubes 5a via vertical tubes $5e_1$ and $5e_2$; and to connect other parts $2b_2$ of the furnace wall tubes 2b directly with the screen tubes 7, thereby integrating the vertical furnace wall tubes 2b ($2b_1$, $2b_2$), the vertical tubes $5e_1$ and $5e_2$, and

the screen tubes 7 by being welded via membrane bars 3. This results in the furnace wall structure not requiring reinforcing supports for supporting the weight of the furnace wall bottom part A.